

(12) **United States Patent
Staten**

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- (54) **APPARATUS FOR COLLECTING DEBRIS
AND METHOD OF USE**
- (71) Applicant: **Troy Jerel Staten**, Loveland, CO (US)
- (72) Inventor: **Troy Jerel Staten**, Loveland, CO (US)
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5,593,117 A *	1/1997	Alexander, III	B65B 67/04 248/95
7,490,787 B1 *	2/2009	Salazar	A01G 1/125 241/285.2
7,815,153 B2 *	10/2010	Campbell	B65B 67/04 248/95
8,047,477 B2 *	11/2011	Wilkinson	B65B 67/1238 248/94
8,882,350 B2 *	11/2014	Cheney	B65F 1/1415 248/99
2005/0011997 A1 *	1/2005	Kalal	B65B 67/04 248/99
2007/0095419 A1 *	5/2007	Campbell	B65B 67/04 141/10
2010/0200709 A1 *	8/2010	Wilkinson	B65B 67/1238 248/99
2011/0041954 A1 *	2/2011	Noonan	A01G 1/125 141/316
2012/0248118 A1 *	10/2012	Perkowski	B65B 67/1205 220/495.08

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- (58) **Field of Classification Search**
CPC B65B 67/04; B65B 67/12; B65B 37/1238
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See application file for complete search history.

* cited by examiner

Primary Examiner — Nicolas A Arnett
(74) Attorney, Agent, or Firm — Ted Masters

(57) **ABSTRACT**

Apparatus for collecting debris which resides upon a support surface includes a body which has an open mouth end and an opposite closed end. Two diverters are connected to opposite sides of the open end. The diverters are angularly positioned so that they channel the debris into the open end of the apparatus. In one embodiment the apparatus is held in place by staking the distal ends of the diverters to the support surface such as a lawn. In another embodiment weights are placed in pockets in the diverters to hold the apparatus in place on a hard surface such as a driveway.

(56) **References Cited**

U.S. PATENT DOCUMENTS

5,011,103 A *	4/1991	Hayes	B65B 67/1255 248/95
5,031,277 A	7/1991	Coker	
5,393,022 A *	2/1995	Palumbo	B65B 69/00 248/95

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